

# HALLIBURTON

iCem<sup>®</sup> Service

**CONOCO/PHILLIPS COMPANY EBUSINESS**

**Prosper Farms 4-65 11-12 3BH Surface**

Sincerely,  
**Meghan Jacobs**

## Legal Notice

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Prosper Farms 4-65 11-12 3BH** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

**Approximately 95 bbls of cement were returned to surface.**

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton Fort Lupton**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 352431		<b>Ship To #:</b> 3898987		<b>Quote #:</b> 0022543511		<b>Sales Order #:</b> 0905498520				
<b>Customer:</b> CONOCO/PHILLIPS COMPANY-EBUS				<b>Customer Rep:</b> ERICH QUELLETTE						
<b>Well Name:</b> PROSPER FARMS 4-65 11-12			<b>Well #:</b> 3BH		<b>API/UWI #:</b> 05-005-07384-00					
<b>Field:</b> WILDCAT		<b>City (SAP):</b> WATKINS		<b>County/Parish:</b> ARAPAHOE		<b>State:</b> COLORADO				
<b>Legal Description:</b> NW SW-11-4S-65W-2316FSL-490FWL										
<b>Contractor:</b>				<b>Rig/Platform Name/Num:</b> Nabors B16						
<b>Job BOM:</b> 7521 7521										
<b>Well Type:</b> HORIZONTAL OIL										
<b>Sales Person:</b> HALAMERICA/HB41307				<b>Srv Supervisor:</b> Vitali Neverdasov						
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>						
<b>Form Type</b>				<b>BHST</b>						
<b>Job depth MD</b>		2192ft		<b>Job Depth TVD</b>		2192				
<b>Water Depth</b>				<b>Wk Ht Above Floor</b>						
<b>Perforation Depth (MD)</b>		<b>From</b>		<b>To</b>						
<b>Well Data</b>										
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>
Casing		16	15.25				0	100	0	98
Casing	0	9.625	8.921	36	STC	J-55	0	2192	0	0
Open Hole Section			13.5				100	2201	0	0
<b>Tools and Accessories</b>										
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	
Guide Shoe	9.625					Top Plug	9.625	1	HES	
Float Shoe	9.625	1	N/A	2190		Bottom Plug	9.625	1	HES	
Float Collar	9.625	1	N/A	2145		SSR plug set	9.625			
Insert Float	9.625					Plug Container	9.625	1	HES	
Stage Tool	9.625					Centralizers	9.625	18		
<b>Fluid Data</b>										
<b>Stage/Plug #:</b> 1										

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	10 lb/gal Tuned Spacer III	Tuned Spacer III	50	bbl	10	8.97		4	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	SwiftCem	SWIFTCEM (TM) SYSTEM	490	sack	12	2.57		8	15.14

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	SwiftCem	SWIFTCEM (TM) SYSTEM	255	sack	14.2	1.59		6.5	7.9

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	165	bbl	8.33			8	

Cement Left In Pipe	Amount	Reason	Shoe Joint
	45 ft		

**Comment :** 95 BBLS OF CEMENT BACK TO SURFACE.

**HALLIBURTON**

Lab Results- Lead

Rockies, Brighton

**Job Information**

Request/Slurry	2536441/1	Rig Name	Nabors B16	Date	19/FEB/2019
Submitted By	Bryce Hinsch	Job Type	Surface Casing	Bulk Plant	Brighton
Customer	ConocoPhillips	Location		Well	Prosper Farms 4-65 11-12 3BH

**Well Information**

Casing/Liner Size	9.625 in	Depth MD	2147 ft	BHST	35°C / 95°F
Hole Size	13.5 in	Depth TVD	2147 ft	BHCT	34°C / 93°F
Pressure	1214 psi				

**Cement Information - Lead Design**

Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties		
100	% BWOC	Cemex Type I-II					Slurry Density	12	lbm/gal
15.14	gal/sack	Field (Fresh) Water					Slurry Yield	2.57	ft <sup>3</sup> /sack
2	% BWOC	Cal-Seal 60	PB				Water Requirement	15.14	gal/sack
2.3	% BWOC	Econolite (Powder - PB)	PB				Total Mix Fluid	15.14	gal/sack
0.2	% BWOC	VERSASET (PB)	PB				Water Source	Field (Fresh)	
6	lb/sk	Mountain Enhancer 923	PB					Water	

**Operation Test Results Request ID 2536441/1**

Thickening Time, Request Test ID:36250204

20/FEB/2019

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
93	1214	18	8	2:46	2:59	3:06	3:24	3:24



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Lab Results- Tail

Rockies, Brighton

**Job Information**

Request/Slurry	2536442/1	Rig Name	Nabors B16	Date	19/FEB/2019
Submitted By	Bryce Hinsch	Job Type	Surface Casing	Bulk Plant	Brighton
Customer	ConocoPhillips	Location		Well	Prosper Farms 4-65 11-12 3BH

**Well Information**

Casing/Liner Size	9.625 in	Depth MD	2147 ft	BHST	35°C / 95°F
Hole Size	13.5 in	Depth TVD	2147 ft	BHCT	34°C / 93°F
Pressure	1214 psi				

**Cement Information - Tail Design**

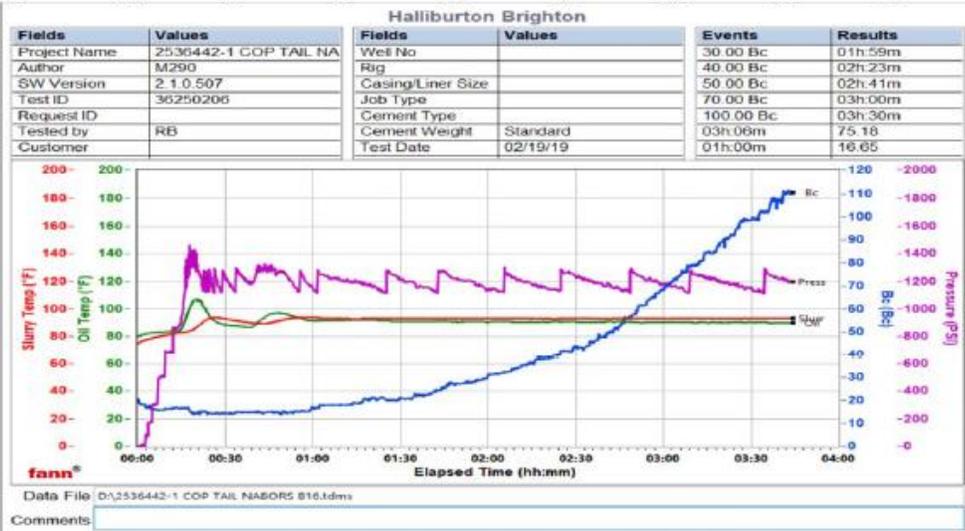
Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties		
100	% BWOC	Mountain G		Bulk Blend	20.02.19	9795	Slurry Density	14.2	lbm/gal
7.9	gal/sack	Field (Fresh) Water		Lab	09.10.18	8/19/2018	Slurry Yield	1.59	ft3/sack
2	% BWOC	Cal-Seal 60	PB	Bulk Blend	20.02.19	0605435	Water Requirement	7.9	gal/sack
1.3	% BWOC	Econolite (Powder - PB)	PB	Bulk Blend	20.02.19	U011011	Total Mix Fluid	7.9	gal/sack
0.2	% BWOC	VERSASET (PB)	PB	Bulk Blend	20.02.19	101376573	Water Source	Field (Fresh)	
6	lb/sk	Mountain Enhancer 923	PB	Bulk Blend	20.02.19		Water	Water	

**Operation Test Results Request ID 2536442/1**

Thickening Time, Request Test ID:36250206

20/FEB/2019

Temp (degF)	Pressure (psi)	Reached in (min)	Start BC	30 Bc (hh:mm)	40 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)
93	1214	18	20	1:59	2:23	2:41	3:00	3:30



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## 2.0 Real-Time Job Summary

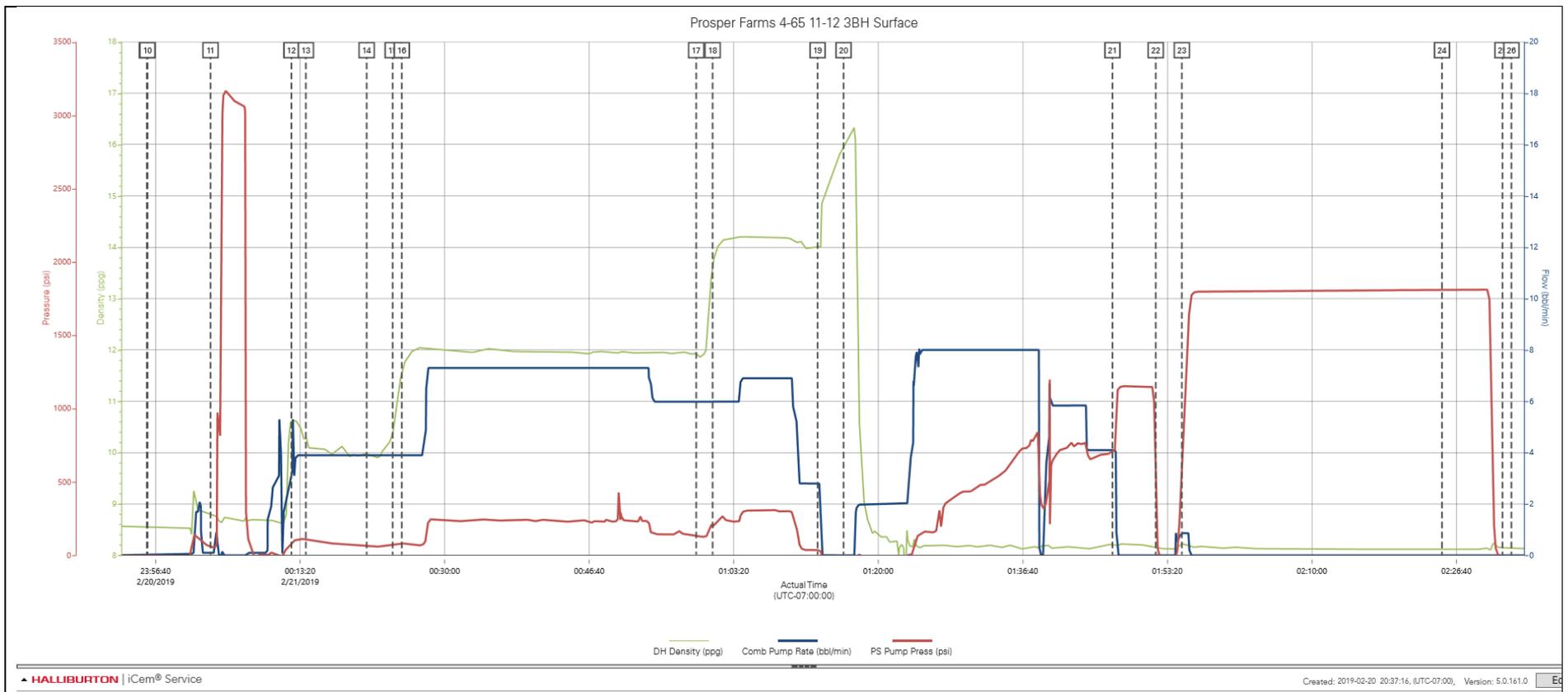
### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	2/20/2019	11:30:00	USER				For Location @ 16:30
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	2/20/2019	13:30:00	USER				Called Journey
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	2/20/2019	15:10:00	USER				38 MILES. DISCUSS NUMBERS AND PROCEDURE WITH CUSTOMER. RIG IS RUNNING CASING.
Event	4	Rig-Up Equipment	Rig-Up Equipment	2/20/2019	16:30:00	USER				Rig-up all surface lines and equipment up to the Buffer zone
Event	5	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	2/20/2019	16:40:00	USER				JSA to discuss the hazards of rig-up
Event	6	Casing on Bottom	Casing on Bottom	2/20/2019	22:24:00	USER				Landing joint brought to floor and landed
Event	7	Circulate Well	Circulate Well	2/20/2019	22:40:00	USER				RIG UP CEMENT HEAD AND MANIFOLD FOR RIG TO CIRCULATE.
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/20/2019	23:35:00	USER	0.03	0.00	-1.00	With all personnel, to discuss the hazards of pumping the job, and pump schedule.
Event	9	Start Job	Start Job	2/20/2019	23:55:39	COM4	8.56	0.00	-3.00	
Event	10	Check Weight	Check Weight	2/20/2019	23:55:44	COM4	8.56	0.00	-3.00	
Event	11	Test Lines	Test Lines	2/21/2019	00:03:00	USER	8.79	0.10	61.00	Test lines @ 3085 psi
Event	12	Pump Spacer	Pump Spacer	2/21/2019	00:12:20	USER	10.62	3.10	73.00	BATCH/ WEIGHT/ PUMP 50 BBLS OF SPACER @ 10 PPG.
Event	13	Drop Top Plug	Drop Top Plug	2/21/2019	00:14:00	USER	10.28	3.90	108.00	Pre-loaded top plug in plug container verified by customer rep.
Event	14	Drop Bottom Plug	Drop Bottom Plug	2/21/2019	00:21:00	USER	9.99	3.90	66.00	DROP BOTTOM PLUG ON THE FLY 47 BBLS INTO SPACER
Event	15	Pump Lead Cement	Pump Lead Cement	2/21/2019	00:24:00	USER	10.38	3.90	70.00	BATCH/ WEIGHT/PUMP 490 sks(224 bbls) of Lead Swiftcem @ 12.0 ppg, verified with pressurized scales

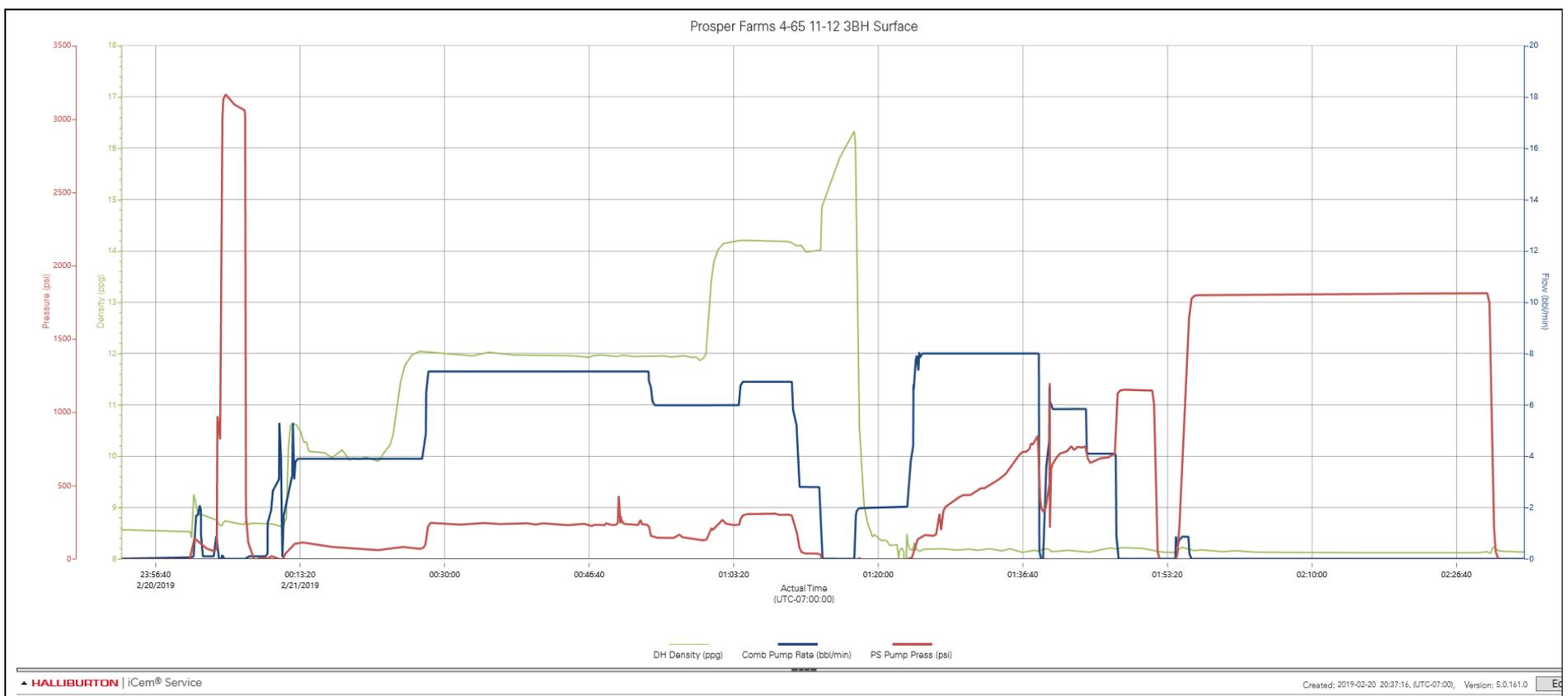
Event	16	Check Weight	Check Weight	2/21/2019	00:25:03	COM4	11.57	3.90	79.00	
Event	17	Pump Tail Cement	Pump Tail Cement	2/21/2019	00:59:00	USER	11.94	5.90	142.00	BATCH/WEIGHT/PUMP 255 SKS (72.2 BBLS) OF TAIL CEMENT @ 14.2 PPG.
Event	18	Check Weight	Check Weight	2/21/2019	01:00:54	COM4	13.65	6.00	200.00	
Event	19	Shutdown	Shutdown	2/21/2019	01:13:00	USER	14.00	2.80	36.00	Finished pumping cement
Event	20	Pump Displacement - Start	Pump Displacement - Start	2/21/2019	01:16:00	USER	15.98	0.00	-33.00	165.8 bbls fresh water. Washing up on top of the plug.
Event	21	Bump Plug	Bump Plug	2/21/2019	01:47:00	USER	8.21	4.10	711.00	@500 psi over final circulating pressure of 730 psi
Event	22	Check Floats	Check Floats	2/21/2019	01:52:00	USER	8.19	0.00	493.00	Floats held. 1 bbl back
Event	23	Event	Event	2/21/2019	01:55:00	USER	8.24	0.90	580.00	PRESSURE UP 1800 PSI FOR 30 MIN CASING TEST.
Event	24	Event	Event	2/21/2019	02:25:00	USER	8.12	0.00	1811.00	BLEED OFF PRESSURE.
Event	25	End Job	End Job	2/21/2019	02:31:58	COM4	8.15	0.00	-10.00	
Event	26	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/21/2019	02:33:00	USER	8.15	0.00	-7.00	JSA to discuss the hazards of rig-down

3.0 Attachments

3.1 Prosper Farms 4-65 11-12 3BH Surface – Job Chart with Events



3.2 Prosper Farms 4-65 11-12 3BH Surface – Job Chart without Events



# HALLIBURTON

iCem<sup>®</sup> Service

**CONOCOPHILLIPS COMPANY - EBUS**

**Prosper Farms 4-65 11-12 3BH Production**

Sincerely,  
**Meghan Jacobs**

## Legal Notice

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Prosper Farms 4-65 11-12 3BH** cement **Production** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

**Approximately 20 bbls of spacer were returned to surface.**

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton Fort Lupton**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 352431		<b>Ship To #:</b> 3898987		<b>Quote #:</b> 0022543699		<b>Sales Order #:</b> 0905525068					
<b>Customer:</b> CONOCO/PHILLIPS COMPANY-EBUS					<b>Customer Rep:</b> Aron Negusse and Jack Longmire						
<b>Well Name:</b> PROSPER FARMS 4-65 11-12			<b>Well #:</b> 3BH			<b>API/UWI #:</b> 05-005-07384-00					
<b>Field:</b> WILDCAT		<b>City (SAP):</b> WATKINS		<b>County/Parish:</b> ARAPAHOE			<b>State:</b> COLORADO				
<b>Legal Description:</b> NW SW-11-4S-65W-2316FSL-490FWL											
<b>Contractor:</b>					<b>Rig/Platform Name/Num:</b> Nabors B16						
<b>Job BOM:</b> 7523 7523											
<b>Well Type:</b> HORIZONTAL OIL											
<b>Sales Person:</b> HALAMERICA/HB41307					<b>Srv Supervisor:</b> Nicholas Roles						
<b>Job</b>											
<b>Formation Name</b>											
<b>Formation Depth (MD)</b>		<b>Top</b>			<b>Bottom</b>						
<b>Form Type</b>					<b>BHST</b>						
<b>Job depth MD</b>		17911ft			<b>Job Depth TVD</b>						
<b>Water Depth</b>					<b>Wk Ht Above Floor</b>						
<b>Perforation Depth (MD)</b>		<b>From</b>			<b>To</b>						
<b>Well Data</b>											
<b>Description</b>	<b>New / Used</b>	<b>Size in</b>	<b>ID in</b>	<b>Weight lbm/ft</b>	<b>Thread</b>	<b>Grade</b>	<b>Top MD ft</b>	<b>Bottom MD ft</b>	<b>Top TVD ft</b>	<b>Bottom TVD ft</b>	
Casing		9.625	8.921	36	STC	J-55	0	2192	0	2192	
Casing		5.5	4.778	20	TXP-BTC	P-110	0	17911	0	7091	
Open Hole Section			8.5				2153	17930	2192	7091	
<b>Tools and Accessories</b>											
<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>	<b>Depth ft</b>		<b>Type</b>	<b>Size in</b>	<b>Qty</b>	<b>Make</b>		
Guide Shoe	5.5			17911		Top Plug	5.5	1	ANT		
Float Shoe	5.5					Bottom Plug	5.5	1	ANT		
Float Collar	5.5			17829.7		SSR plug set	5.5		HES		
Insert Float	5.5					Plug Container	5.5	1	HES		
Stage Tool	5.5					Centralizers	5.5		HES		
<b>Fluid Data</b>											
<b>Stage/Plug #: 1</b>											
<b>Fluid #</b>	<b>Stage Type</b>	<b>Fluid Name</b>			<b>Qty</b>	<b>Qty UoM</b>	<b>Mixing Density lbm/gal</b>	<b>Yield ft<sup>3</sup>/sack</b>	<b>Mix Fluid Gal</b>	<b>Rate bbl/min</b>	<b>Total Mix Fluid Gal</b>
1	10.5 lb/gal Tuned Spacer III	Tuned Spacer III			60	bbl	10.5	6.62		5	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	ElastiCem	ELASTICEM (TM) SYSTEM	825	sack	13.2	1.57		6	7.54
3	EconoCem	ECONOCEM (TM) SYSTEM	1505	sack	13.5	1.79		6	8.73
4	MMCR Displacement	MMCR Displacement	40	bbl	8.34			10	
0.50 gal/bbl		<b>MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)</b>							
5	Water	Water	358	bbl	8.33			10	
<b>Cement Left In Pipe</b>		<b>Amount</b>	81.1 ft		<b>Reason</b>			<b>Shoe Joint</b>	
<b>Mix Water:</b>		pH 07	<b>Mix Water Chloride:</b> 0 ppm		<b>Mix Water Temperature:</b> 85 °F °C				
<b>Cement Temperature:</b>		82 °F °C	<b>Plug Displaced by:</b> 8.33lb/gal		<b>Disp. Temperature:</b> 90 °F °C				
<b>Plug Bumped?</b>		Yes	<b>Bump Pressure:</b> 3600psi MPa		<b>Floats Held?</b> Yes				
<b>Spacer Returns:</b>		20 bbl m3	<b>Returns Density:</b> ## lb/gal kg/m3		<b>Returns Temperature:</b> ## °F °C				
<b>Comment</b> First reading of cement temp with bad batch was 115deg. Pumped off roughly 29sks or 7bbls lead cement to pits to batch up new with roughly 84deg water. Mixed perfectly after clean out and cement temp was around 82deg. About 1hour of NPT during water scenario. Got 20bbls Spacer back. Estimated TOT-6312' TOL-895'									

## HALLIBURTON Rockies, Brighton

### Lab Results- Lead

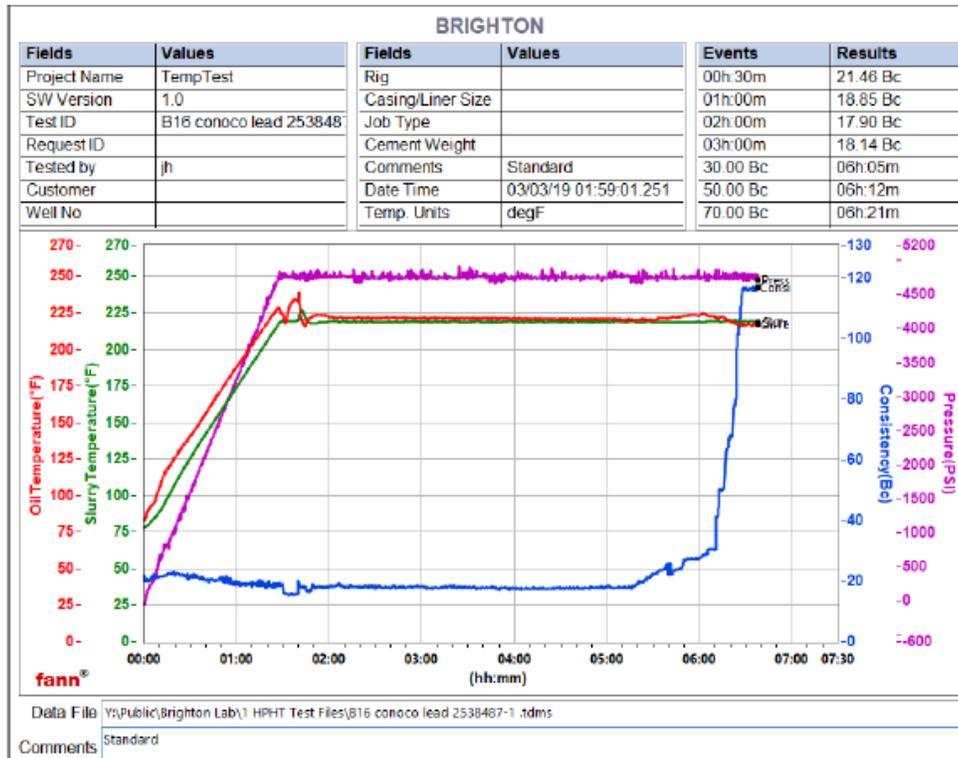
Job Information					
Request/Slurry	2538487/1	Rig Name	Nabors B16	Date	28/FEB/2019
Submitted By	Meghan Jacobs	Job Type	Production Casing	Bulk Plant	Brighton
Customer	ConocoPhillips	Location	Weld	Well	Prosper Farms 4-65 11-12 3BH

Well Information					
Casing/Liner Size	5.5 in	Depth MD	17916 ft	BHST	104°C / 219°F
Hole Size	8.5 in	Depth TVD	7450 ft	BHCT	104°C / 219°F
Pressure	4764 psi				

Cement Information - Lead Design										
Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties			
100	% BWOC	Cement Blend					Slurry Density	13.2	lbm/gal	
7.54	gal/sack	Field (Fresh) Water		Lab	09.10.18	8/19/2018	Slurry Yield	1.57	ft <sup>3</sup> /sack	
5	lb/sk	WellLife 708 (PB)	PB	Bulk Blend	03.03.19	2138	Water Requirement	7.54	gal/sack	
0.1	% BWOC	SA-1015 (PB)	PB	Bulk Blend	03.03.19	8F3692W	Total Mix Fluid	7.54	gal/sack	
0.35	% BWOC	SCR-100 (PB)	PB	Bulk Blend	03.03.19	CT18J29001				
1	lb/sk	Silicalite - Compacted	PB	Bulk Blend	03.03.19	B25D12-2	Water Source	Field (Fresh) Water		
0.2	% BWOC	HALAD-344 (PB)	PB	Bulk Blend	03.03.19	20181232	Water Chloride			

Operation Test Results Request ID 2538487/1										
Thickening Time - ON-OFF-ON, Request Test ID:36275698										03/MAR/2019
Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
219	4764	87	6:05	6:12	6:21	6:22	22.5	90	10	18

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## HALLIBURTON Rockies, Brighton

### Lab Results- Tail

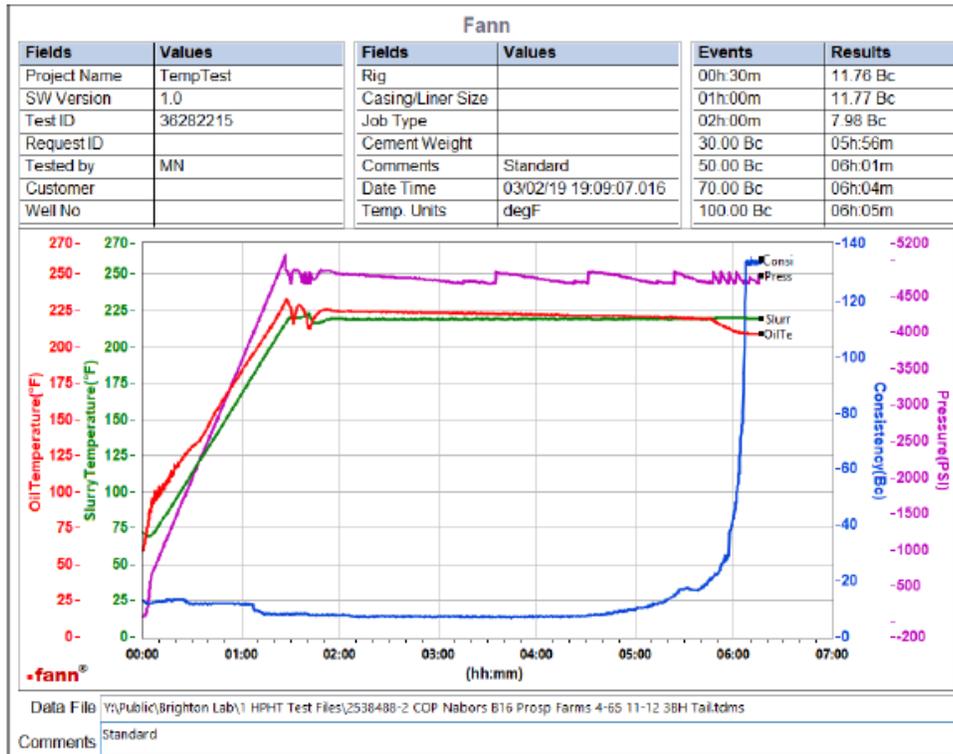
Job Information					
Request/Slurry	2538488/2	Rig Name	Nabors B16	Date	28/FEB/2019
Submitted By	Meghan Jacobs	Job Type	Production Casing	Bulk Plant	Brighton
Customer	ConocoPhillips	Location	Weld	Well	Prosper Farms 4-65 11-12 3BH

Well Information					
Casing/Liner Size	5.5 in	Depth MD	17916 ft	BHST	104°C / 219°F
Hole Size	8.5 in	Depth TVD	7450 ft	BHCT	104°C / 219°F
Pressure	4764 psi				

Cement Information - Tail Design									
Conc	UOM	Cement/Additive	MP	Sample Type	Sample Date	Lot No.	Cement Properties		
100	% BWOC	Cement Blend					Slurry Density	13.5	lbm/gal
8.73	gal/sack	Field (Fresh) Water		Lab	01.03.19	3/1/19	Slurry Yield	1.79	ft3/sack
25	% BWOC	SS-200 silica flour	PB	Bulk Blend	03.03.19		Water Requirement	8.73	gal/sack
0.1	% BWOC	SA-1015 (PB)	PB	Bulk Blend	03.03.19	8F3692W	Total Mix Fluid	8.73	gal/sack
0.3	% BWOC	HR-5 (PB)	PB	Bulk Blend	03.03.19	1180200			
0.8	% BWOC	HALAD-344 (PB)	PB	Bulk Blend	03.03.19	20181232	Water Source	Field (Fresh)	
0.2	% BWOC	HALAD-413 (PB)	PB	Bulk Blend	03.03.19	ZM8J0686A0	Water Chloride	Water	

Operation Test Results Request ID 2538488/2										
Thickening Time - ON-OFF-ON, Request Test ID:36282215										03/MAR/2019
Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:mm)	50 Bc (hh:mm)	70 Bc (hh:mm)	100 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)
219	4764	87	5:56	6:01	6:04	6:05	13.3	90	10	8

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## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

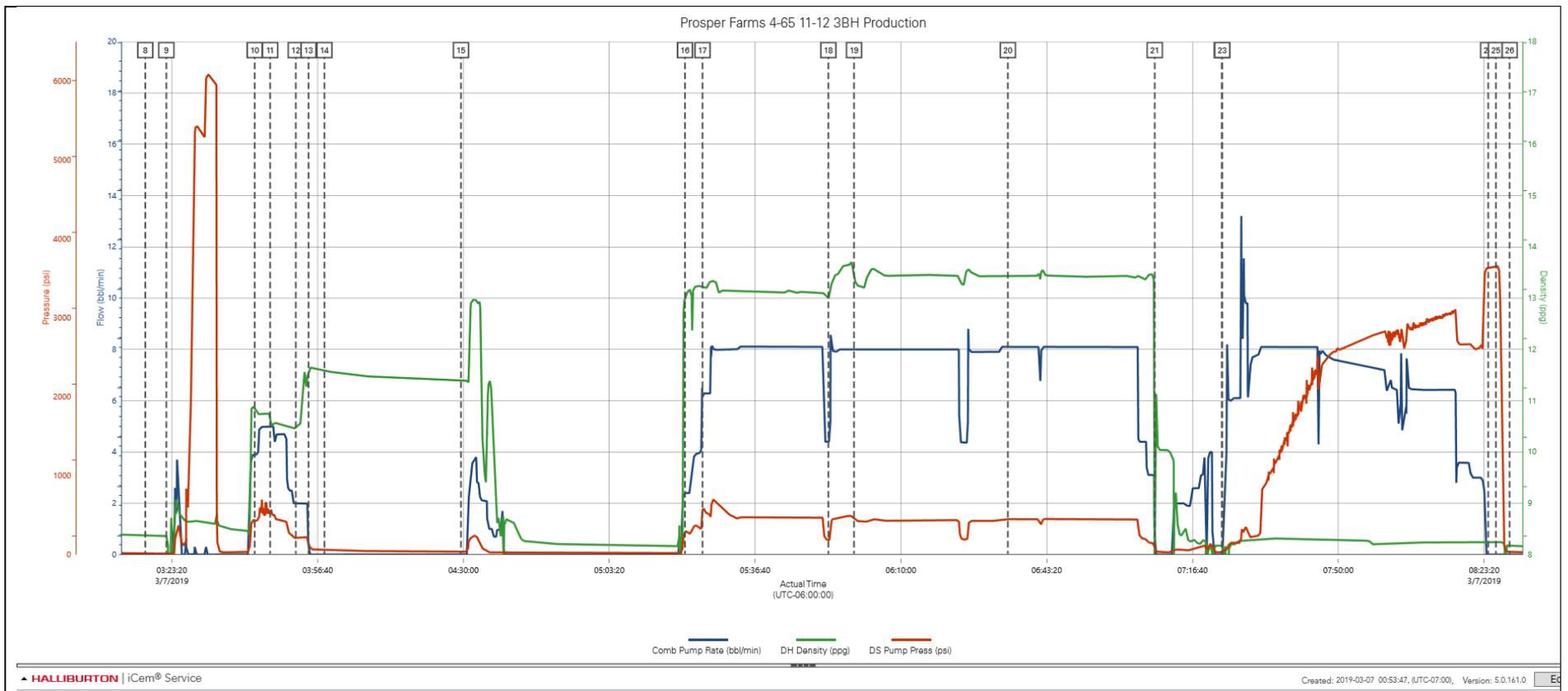
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate <i>(bbl/min)</i>	DH Density <i>(ppg)</i>	DS Pump Press <i>(psi)</i>	Comments
Event	1	Check Floats	Call Out	3/6/2019	19:00:00	USER				Called out by Service Coordinator for O/L at 0000
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/6/2019	22:15:00	USER				Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	3/6/2019	22:30:00	USER				Journey Management prior to departure
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	3/7/2019	00:00:00	USER				Upon arrival met with company man to discuss job details and calculations, performed hazard hunt and site assessment.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/7/2019	00:15:00	USER				Discussed rigging up hazards and procedure according to HMS.
Event	6	Other	Other	3/7/2019	01:00:00	USER				Water test- PH-6, Chlor-0, Temp-89
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/7/2019	02:55:00	USER	0.00	0.00	-3.00	Held safety meeting with all job associated personnel to discuss job procedure, hazards and stop work authority.
Event	8	Start Job	Start Job	3/7/2019	03:17:16	COM4	0.00	8.37	8.00	TD-17930', TP-17910.8' 5.5" 20#, FC-17829.7', TVD-7091', OH-8.5", SURF-2191.8' 9.625" 36#, MUD-9.8#.
Event	9	Test Lines	Test Lines	3/7/2019	03:22:04	COM4	0.00	8.37	10.00	Pumped 3bbls fresh water to fill lines, closed manifold, performed 500psi k/o function test, followed with 5th gear stall at 1400psi, proceeded to bring pressure up to 5000psi. Held pressure and no leaks.
Event	10	Pump Spacer 1	Pump Spacer 1	3/7/2019	03:42:16	COM4	3.90	10.87	436.00	Pumped 60bbls of 10.5# 6.62y 42.5g/s Tuned Spacer III with 40g Dual Spacer B, 40g Musol-A and 5g D-Air at 5bpm 520psi
Event	11	Check Weight	Check Weight	3/7/2019	03:45:47	COM4	5.00	10.55	554.00	Weight verified with pressurized mud scales.
Event	12	Drop Bottom Plug	Drop Bottom Plug	3/7/2019	03:51:40	COM4	2.00	10.48	211.00	Dropped by HES supervisor, witnessed by company man.

Event	13	Pump Lead Cement	Pump Lead Cement	3/7/2019	03:54:34	COM4	0.00	11.56	171.00	Josh Washburn was on pump and as soon as he began to bring on lead cement it turned to a peanut butter consistency and was not able to mix correctly. I tried to diagnose with everything i could think of and i did get the weight up to 12.6# however it still would not stay a smooth consistency and would not mix correctly. After checking oilers 6x5, micro-motion and a few tires at it, it was unmixable at its current state.
Event	14	Other	Other	3/7/2019	03:58:12	COM4	0.00	11.58	57.00	After trying for roughly 10-15min I checked the temperature of cement and 1st reading was 110deg. I immediately made a phone call to get advise on that temp due to it being so high and abnormal mixing temp. After deliberation with company man and HES supervisor we decided to try to circulate colder water through closest tank and the rearest tank. To bring temperature down and not risk wasting any more cement.
Event	15	Other	Other	3/7/2019	04:29:24	COM4	0.00	11.40	38.00	At this time the cement had reached approx. 120deg and I discussed with company man about dumping cement into pits and not downhole. Pumped off approx 8bbls or 29sks at 12.6# Lead cement.
Event	16	Pump Lead Cement	Pump Lead Cement	3/7/2019	05:20:39	COM4	2.40	12.99	314.00	Began again with cooler water about 80deg with a fresh tub and no issues at all mixing, company man and myself was good with going through and pumping job as planned. Pumped 800sks or 224bbls of 13.2# 1.57y 7.54g/s Elasticem at 8bpm 470psi
Event	17	Check Weight	Check Weight	3/7/2019	05:24:39	COM4	6.30	13.21	566.00	Weight verified with pressurized mud scales.
Event	18	Pump Tail Cement	Pump Tail Cement	3/7/2019	05:53:25	COM4	4.40	12.98	184.00	Pumped 1505sks or 480bbls of 13.5# 1.79y 8.73g/s Econocem at 8bpm 523psi.
Event	19	Check Weight	Check Weight	3/7/2019	05:59:16	COM4	8.00	13.40	462.00	Weight verified with pressurized mud scales.
Event	20	Check Weight	Check Weight	3/7/2019	06:34:27	COM4	8.10	13.44	446.00	Weight verified with pressurized mud scales.
Event	21	Shutdown	Shutdown	3/7/2019	07:08:02	COM4	0.00	6.29	86.00	Pumped 10bbls fresh water through pumps and lines.
Event	22	Drop Top Plug	Drop Top Plug	3/7/2019	07:23:21	COM4	0.00	8.18	30.00	Dropped by HES supervisor, witnessed by company man.
Event	23	Pump Displacement	Pump Displacement	3/7/2019	07:23:27	COM4	0.00	8.18	30.00	Pumped 398bbls fresh water with 20g of MMCR in first 40bbls, with 15g biocide, 1bucket oxygen and 2 barrels of Baracore 100 throughout.

Event	24	Bump Plug	Bump Plug	3/7/2019	08:24:15	COM4	0.00	8.25	3639.00	Slowed down at 3750bbbls away to 3bpm, final circulating pressure 2600psi, Bump Pressure-3650psi. Held for 5min.
Event	25	Check Floats	Check Floats	3/7/2019	08:26:00	USER	0.00	8.23	3656.00	Released pressure and got 5bbbls fresh water back. Floats held.
Event	26	End Job	End Job	3/7/2019	08:29:08	COM4	0.00	8.19	34.00	Got 20bbbls Spacer back. Estimated TOT-6312' TOL-895'
Event	27	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/7/2019	08:35:00	USER	0.00	8.15	28.00	Discussed rigging down hazards and procedure according to HMS with all HES personnel
Event	28	Safety Meeting - Departing Location	Safety Meeting - Departing Location	3/7/2019	10:45:00	USER				Held meeting with all personnel in convoy to discuss directions and hazards associated with drive, all fit to drive.
Event	29	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	3/7/2019	11:00:00	USER				Pre journey management prior to departure.

3.0 Attachments

3.1 Prosper Farms 4-65 11-12 3BH Production – Job Chart with Events



### 3.2 Prosper Farms 4-65 11-12 3BH Production – Job Chart without Events

